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FITZPATRICK CELLA HARPER & SCINTO

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APPLICATION NO.

10/791,820

5514

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov ATTORNEY DOCKET NO. CONFIRMATION NO. 03500.017940 3654 **EXAMINER** BEAUCHAINE, MARK J

> MAIL DATE DELIVERY MODE 10/11/2007 **PAPER**

PAPER NUMBER

ART UNIT

3653

Please find below and/or attached an Office communication concerning this application or proceeding.

FIRST NAMED INVENTOR

Naoto Watanabe

The time period for reply, if any, is set in the attached communication.

10/11/2007

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		Application No.	Applicant(s)
Office Action Summary		10/791,820	WATANABE ET AL.
		Examiner	Art Unit
		Mark J. Beauchaine	3653
Period fo	The MAILING DATE of this communication app	ears on the cover sheet with	the correspondence address
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DA nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period v ure to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICA 36(a). In no event, however, may a repl vill apply and will expire SIX (6) MONTH , cause the application to become ABAN	ATION. y be timely filed IS from the mailing date of this communication. NDONED (35 U.S.C. § 133).
Status	go patent term adjustment. Gee or or it in one.		
1)⊠	· —	action is non-final.	·
Disposit	ion of Claims		
5)□ 6)⊠ 7)□	Claim(s) 1-6,16 and 17 is/are pending in the ap 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-6,16 and 17 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.	
Applicat	ion Papers		
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>04 March 2004</u> is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	a)⊠ accepted or b)⊡ object drawing(s) be held in abeyance ion is required if the drawing(s)	e. See 37 CFR 1.85(a). is objected to. See 37 CFR 1.121(d).
Priority (under 35 U.S.C. § 119		·
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 			
	ce of References Cited (PTO-892)		nmary (PTO-413)
3) Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date		Mail Date pmal Patent Application .

DETAILED ACTION

Receipt of the Applicant's amendment dated 25 September 2007 and supplemental amendment dated 28 September 2007 that are in response to final Office action dated 26 June 2007 is acknowledged. After further consideration, claims 1-6, 16 and 17 pending in the instant application are subject to new grounds of rejection. Accordingly, finality of said final Office action is hereby withdrawn.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 6, 16 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Patent Number US 6,494,453 B1 by Yamada et al ("Yamada") in view of Patent Number 6,146,085 by Namba et al ("Namba"). The sheet stacking apparatus disclosed by Yamada comprises a first tray 1 on which sheets discharged from outlet E2 are stacked (see Figures 1 and 2), said first tray being movable between a stacking position at which the sheets discharged from the outlet are stacked and a first retracted position above the stacking position. Yamada further discloses second tray 2 on which sheets discharged from the outlet are stacked, said second tray being

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disposed below said first tray being movable between a stacking position at which the sheets discharged from the outlet are stacked when said first tray is at a first retracted position, and a second retracted position below the stacking position (column 14, lines 50-61).

Still further, Yamada discloses controller 102 that controls movement of said first tray and said second tray independently of each other, wherein when the sheets are to be stacked on said first tray, said controller stops descending movement of said second tray when a moving distance of said second tray reaches a predetermined distance, *i.e.*, the distance from sensor SN8 to outlet E2, (column 9, lines 26-33) which is set so that the top surface of the sheets stacked on said second tray does not interfere with said first tray which is at the stacking position. Sensor SN8 detects the sheets on said second tray wherein the predetermined distance is set to a distance of movement up to just before an output of said sensor changes from "sheet present" to "sheet absent".

After the moving distance of said second tray reaches the predetermined distance, said controller initiates an ascending movement of said second tray in response to a change of output of said sensor from "sheet present" to "sheet absent," and stops the ascending movement in response to a change of the output of said sensor from "sheet absent" to "sheet present" (column 16, lines 59-64).

When the moving distance of said second tray reaches the predetermined distance, said controller stops said second tray regardless of the output of said sensor (column 18, lines 47-59). Yamada further discloses second sensor SN9 that detects that said second tray has descended to reach a lower limit when the sheets are to be

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stacked onto said first tray (column 18, lines 32-46). When the moving distance of said second tray reaches the predetermined distance, said second tray is above the second retracted position.

Yamada fails to disclose said second tray descending distance as being constant. Namba teaches a second tray 9B that descends to a retracted position at a predetermined constant distance below a discharge outlet (see Figure 5; column 7, lines 48-53; column 13, lines 10-18; column 15, lines 29-36) for the purpose of ensuring that said second tray attains said retracted position at a preset time period. It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the second tray configuration of Namba into the sheet stacking apparatus of Yamada for the purpose of ensuring that said second tray attains said retracted position at a preset period of time.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yamada in view of Namba as applied to claim 2 above, and further in view of Patent Number 5,228,679 by Borostyan ("Borostyan"). Yamada fails to disclose an ascending movement of second tray 2 before the moving distance of said second tray reaches the predetermined distance. Borostyan teaches a sheet stacking apparatus comprising controller 96 and tray 114 that contains a stack of sheets. Controller 96 initiates an ascending movement of tray 114 before the moving distance of said tray reaches a predetermined distance (column 7, lines 55-69) for the purpose of stationing the upper surface of the stack of sheets at a predetermined location. It would have been obvious

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to one of ordinary skill in the art at the time the invention was made to incorporate the ascending operation of Borostyan into the sheet stacking apparatus of Yamada for the purpose of stationing the upper surface of a stack of sheets at a predetermined location.

Response to Arguments

Applicant's arguments with respect to claims 1-6, 16 and 17 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark J. Beauchaine whose telephone number is (571)272-6934. The examiner can normally be reached on 8:00AM through 5:00PM Mondays through Thursdays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick H. Mackey can be reached on (571)272-6916. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

mjb

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